

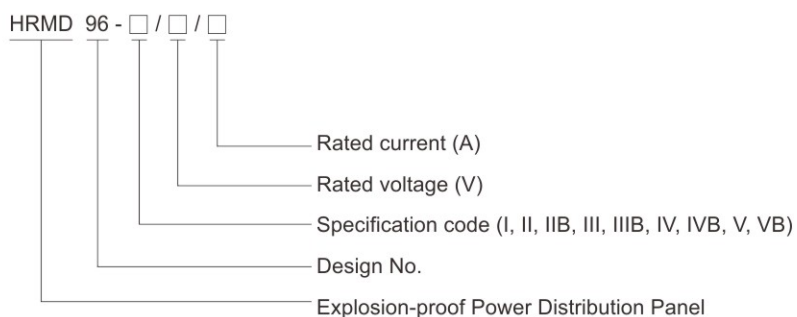
Distribution Boxes

HRMD96 Series Explosion-proof Distribution Panels

- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 1, Groups B, C, D
- ◆ Flameproof enclosure (Ex db), which can be used as feed distribution equipment in control and distribution system (such as distribution box, switch box of main circuit ,control box, terminal box or motor starting box etc.)
- ◆ Enclosure: 304 stainless steel, 316L stainless steel and Q235.
- ◆ Equipped with specialized hinge structure, which can prevent the flameproof joints from damage when opening and closing the box, and greatly prolong the service life of box.
- ◆ The boxes can be combined and installed freely to save space and meet the requirements of various distribution systems.
- ◆ Special requirements on request.



Catalogue number logic



Zones1& 2; 21& 22

Distribution Boxes

HRMD96 Series Explosion-proof Distribution Panels

Technical data

Explosion-proof distribution panels

HRMD96-□/□/□

Explosion protection

Global (IECEX)

Gas and dust

IECEX PCET 24.0027X

Ex db IIC T6...T4¹⁾ Gb

Ex db [ia Ga] IIC T6...T4¹⁾ Gb

Ex db [ib Gb] IIC T6...T4¹⁾ Gb

Ex tb IIIC T80°C...T130°C¹⁾ Db

Ex tb [ia Da] IIIC T80°C...T130°C¹⁾ Db

Ex tb [ib Db] IIIC T80°C...T130°C¹⁾ Db

ATEX (applied for)

Europe (ATEX)

Gas and dust

Ex II 2 G Ex db IIC T6...T4¹⁾ Gb

Ex II 2 G Ex db [ia Ga] IIC T6...T4¹⁾ Gb

Ex II 2 G Ex db [ib Gb] IIC T6...T4¹⁾ Gb

Ex II 2 D Ex tb IIIC T80°C...T130°C¹⁾ Db

Ex II 2 D Ex tb [ia Da] IIIC T80°C...T130°C¹⁾ Db

Ex II 2 D Ex tb [ib Db] IIIC T80°C...T130°C¹⁾ Db

See Selection table, P6/41~42

Certificates

Conformity to standards

IECEX; ATEX; CU-TR

EN IEC 60079-0, EN 60079-1, EN 60079-11, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-11, IEC 60079-31

Enclosure material

Exposed fastener

Built-in components

304 stainless steel, 316L stainless steel and Q235

Stainless steel

Ammeters voltmeters, power meters, tachometers temperature control meters and other meters, control switches, disconnecting switches, Moulded Case Circuit Breakers (MCCB), Miniature Circuit Breakers (MCB), AC contactors, thermal relays, intermediate relays, time relays, control transformers, DC power supplies, current transformers, surge protectors, PLCs, fuses, soft starters, frequency converters, terminals, bus bars, resistors, light-operated switches, time controllers, optical fiber control boxes, magnet valves, analytical instruments, heaters, self-regulation trace heating cables, display screens, magnetic ballasts of HID light sources, electronic ballasts of fluorescent lamps, drivers of LED light sources, emergency devices of HID light sources, emergency devices of fluorescent lamps, emergency devices of LED light sources, safety barriers, integrated protectors of motors, lighting building controllers, lighting energy saving controllers, fire monitoring controllers, temperature controllers, humidity controllers, current monitors, voltage monitors, motor protection switches, dual power transfer switches, counters, timers, solid state relays, diode modules, industrial personal computers, UPS, batteries.

Rated voltage

Rated current

Degree of protection

Ambient temperature

Cable entries

Max. 1000V AC 50/60Hz Max. 1500V DC

Max. 1000A

IP66

-60°C(-40°C)~+60°C(+40°C), -40°C~+60°C(+40°C)

Standard M□ x 1.5 plug (the size of entry hole should be processed in accordance with actual requirements), NPT □ plug on request.

Cable gland (optional)

Entry direction

Mounting

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/22~31.

Bottom

Surface type (standard)

Pedestal type (optional)



Distribution Boxes

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Selection table for max. dissipated power

Ta=60℃	HRMD96 with full metal cover without glass		
	T4(T130℃)	T5(T95℃)	T6(T80℃)
Type	Power (W)	Power (W)	Power (W)
HRMD96-I	101	51	22
HRMD96-II	145	73	31
HRMD96-IIB	168	84	41
HRMD96-III	148	74	36
HRMD96-IIIB	188	94	46
HRMD96-IV	190	95	49
HRMD96-IVB	239	119	56
HRMD96-V	279	139	55
HRMD96-VB	299	149	72

Ta=60℃	HRMD96 with metal cover with glass		
	T4(T130℃)	T5(T95℃)	T6(T80℃)
Type	Power (W)	Power (W)	Power (W)
HRMD96-I	101	51	19
HRMD96-II	150	75	30
HRMD96-IIB	155	77	38
HRMD96-III	215	108	38
HRMD96-IIIB	224	112	49
HRMD96-IV	187	93	48
HRMD96-IVB	251	125	53
HRMD96-V	290	145	52
HRMD96-VB	313	157	65

Ta=40℃	HRMD96 with full metal cover without glass		
	T4(T130℃)	T5(T95℃)	T6(T80℃)
Type	Power (W)	Power (W)	Power (W)
HRMD96-I	130	79	43
HRMD96-II	187	114	61
HRMD96-IIB	216	132	89
HRMD96-III	190	116	89
HRMD96-IIIB	242	148	99
HRMD96-IV	244	149	103
HRMD96-IVB	307	188	111
HRMD96-V	358	219	108
HRMD96-VB	384	235	158

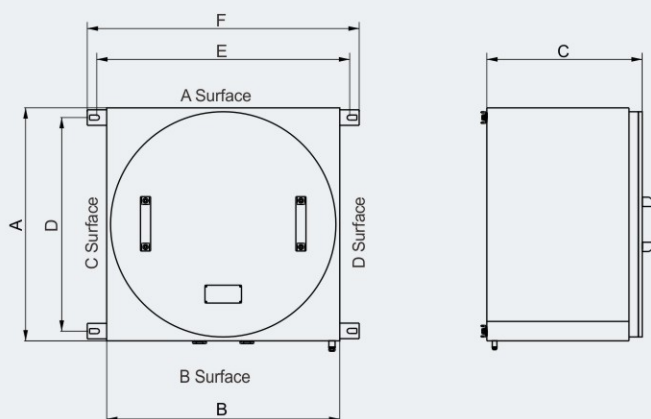


Distribution Boxes

HRMD96 Series Explosion-proof Distribution Panels

Ta=40°C	HRMD96 with metal cover with glass		
	T4(T130°C)	T5(T95°C)	T6(T80°C)
Type	Power (W)	Power (W)	Power (W)
HRMD96-I	130	79	38
HRMD96-II	193	118	52
HRMD96-IIB	199	122	65
HRMD96-III	277	169	78
HRMD96-IIIB	288	176	86
HRMD96-IV	240	147	87
HRMD96-IVB	322	197	95
HRMD96-V	373	228	93
HRMD96-VB	403	246	120

Dimension drawings (all dimensions in mm) - subject to alteration



Version	Dimension (mm)					
	A	B	C	D	E	F
HRMD96-I	200	200	150	150	226	260
HRMD96-II	300	300	150	250	351	400
HRMD96-IIB	300	300	250	250	351	400
HRMD96-III	400	400	150	350	451	500
HRMD96-IIIB	400	400	250	350	451	500
HRMD96-IV	500	500	250	450	561	600
HRMD96-IVB	500	500	400	450	561	600
HRMD96-V	600	600	250	550	651	700
HRMD96-VB	600	600	400	550	651	700

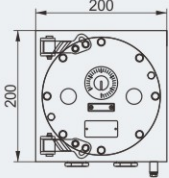
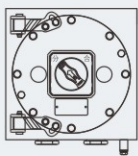
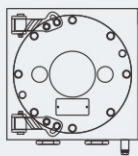
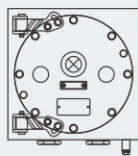
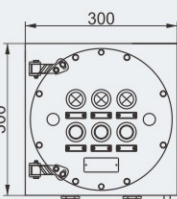
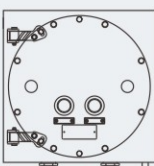
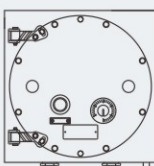
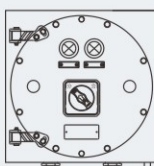
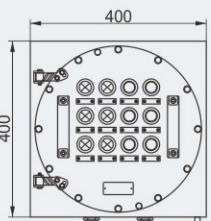
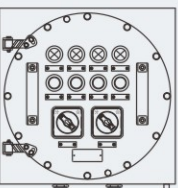
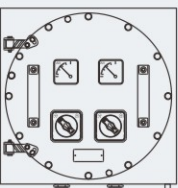
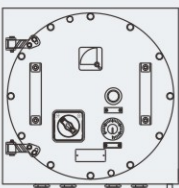
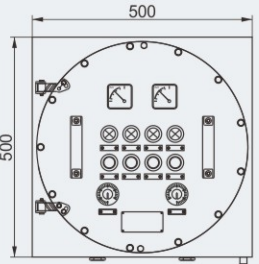
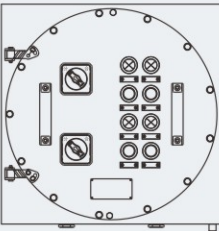
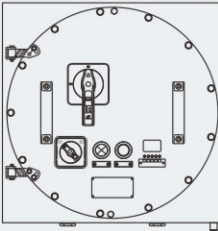
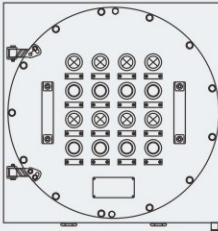
Note: For cable entries:

- 1). Please specify the direction and size of each cable entry.
- 2). Cable gland is optional, DQM-II (Ex d) or DQM-III (Ex d) is recommended, please see P7/22~31.

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Typical scheme diagram

Enclosure	Components arrangement			
HRMD96-I				
HRMD96-II HRMD96-IIB				
HRMD96-III HRMD96-IIIB				
HRMD96-IV HRMD96-IVB				
HRMD96-V HRMD96-VB	